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GENERAL AVIATION STATISTICAL DATABOOK

1983 Edition

FOREWORD

Many of the hundreds of callers requesting statistics from GAMA find that the GENERAL AVIATION STATISTICAL DATABOOK has most of the answers right at their fingertips.

Inside, the DATABOOK contains complete information on U.S. general aviation aircraft shipments. Other sections deal with general aviation fleet characteristics and flight activity, the U.S. pilot population, and airports and aeronautical facilities. Forecasts and details about general aviation safety and fuel consumption wrap up the last section of this valuable resource.

Of course, we at GAMA are interested in making your analysis of general aviation as accurate and complete as possible. If you need more information or assistance, call or write.

We'll be glad to help.

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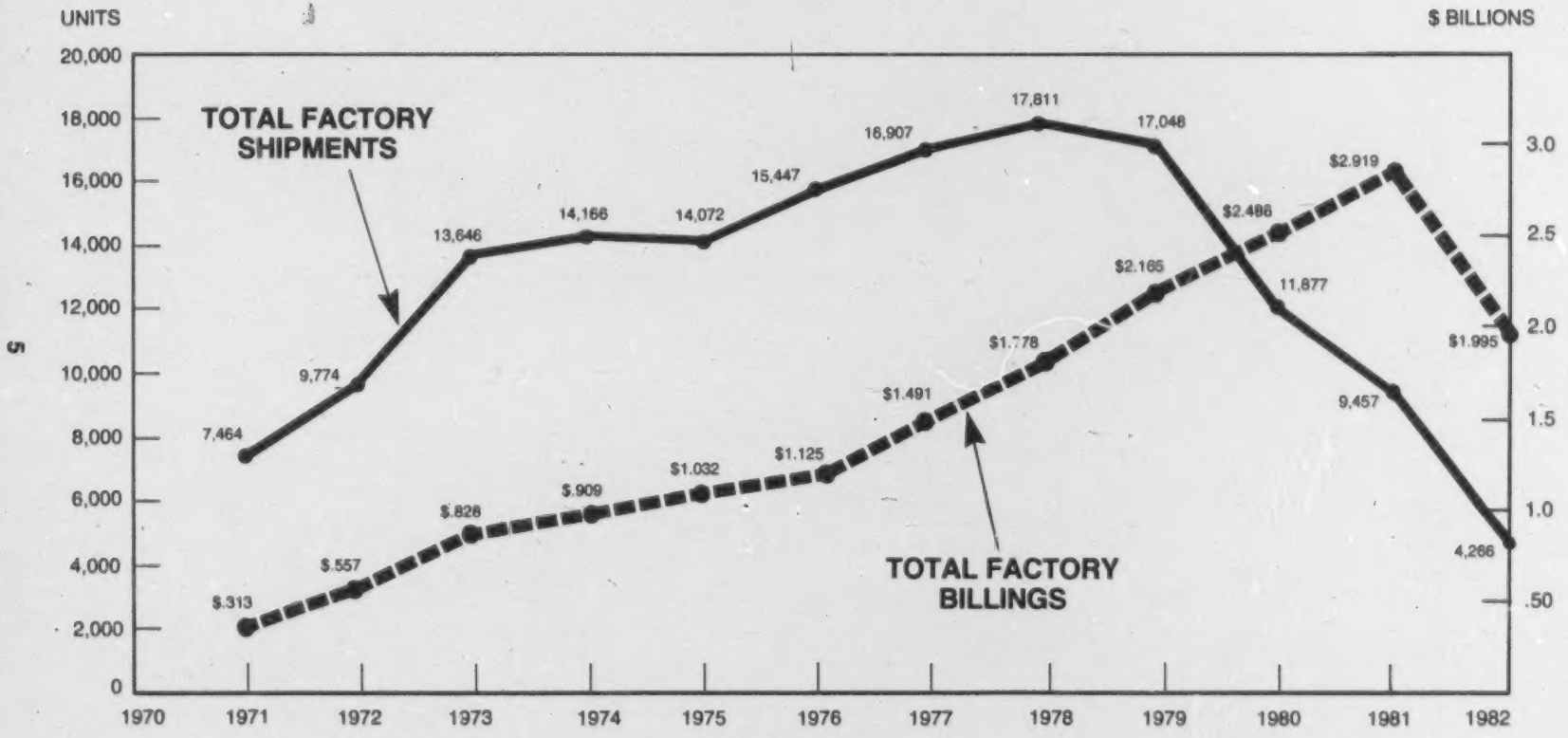
SHIPMENT STATISTICS

Annual Shipments of New U.S. General Aviation Aircraft by Units Shipped, Number of Companies Reporting, and Factory Net Billings

Year	Units Shipped	Companies Reporting	Factory Net Billings (Millions)
1946	35,000	—	$ 110.0
1947	15,594	15	57.9
1948	7,037	12	32.4
1949	3,405	11	17.7
1950	3,386	13	19.1
1951	2,302	12	16.8
1952	3,058	8	26.8
1953	3,788	7	34.4
1954	3,071	7	43.4
1955	4,434	7	68.2
1956	6,738	8	103.7
1957	6,118	9	99.6
1958	6,414	10	101.9
1959	7,689	9	129.8
1960	7,588	8	151.2
1961	6,778	8	124.3
1962	6,697	7	136.8
1963	7,569	7	153.4
1964	9,336	8	198.8
1965	11,852	8	318.2
1966	15,768	10	444.9
1967	13,577	14	359.6
1968	13,698	14	425.6
1969	12,591	14	638.8
1970	7,402	13	364.1
1971	7,464	11	313.1
1972	9,774	12	557.2
1973	13,646	12	828.2
1974	14,166	12	909.4
1975	14,056	12	1,032.9
1976	15,449	12	1,225.5
1977	16,907	12	1,488.1
1978	17,811	12	1,781.3
1979	17,048	12	2,165.0
1980	11,877	12	2,486.2
1981	9,457	12	2,919.9
1982	4,266	11	1,999.0

Source: GAMA

General Aviation Unit Shipments/Billings



. . . AND BILLINGS

SHIPMENTS BY TYPE . . .

U.S. General Aviation Aircraft Shipments by Type of Aircraft

Year	Total	Single Engine	Multi-Engine	Total Piston	Turbo-Prop	Jet
1962	6,697	5,690	1,007	6,697	-0-	-0-
1963	7,569	6,248	1,321	7,569	-0-	-0-
1964	9,336	7,718	1,606	9,324	9	3
1965	11,852	9,873	1,780	11,653	87	112
1966	15,768	13,250	2,192	15,442	165	161
1967	13,577	11,557	1,773	13,330	149	98
1968	13,698	11,398	1,959	13,357	248	93
1969	12,457	10,054	2,078	12,132	214	111
1970	7,292	5,942	1,159	7,101	135	56
1971	7,466	6,287	1,043	7,330	89	47
1972	9,774	7,898	1,548	9,446	179	149
1973	13,646	10,780	2,413	13,193	247	206
1974	14,166	11,562	2,135	13,697	250	219
1975	14,056	11,439	2,116	13,555	305	196
1976	15,449	12,783	2,120	14,903	359	187
1977	16,907	14,057	2,195	16,252	428	227
1978	17,811	14,398	2,634	17,032	548	231
1979	17,048	13,286	2,843	16,129	637	282
1980	11,877	8,640	2,116	10,756	795	326
1981	9,457	6,608	1,542	8,150	918	389
1982	4,266	2,871	678	3,549	458	259

Source: GAMA

U.S. General Aviation Aircraft Shipments by Year and Month

YEAR/ MONTH	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	555	578	649	587	601	556	452	436	441	676	527	639
1963	588	538	680	709	653	638	548	553	524	684	604	850
1964	725	696	735	834	836	833	745	575	614	1,102	718	923
1965	866	752	1,024	1,082	948	978	985	1,040	834	1,112	1,120	1,111
1966	1,187	1,173	1,495	1,385	1,485	1,396	1,093	1,266	1,522	1,073	1,301	1,211
1967	1,163	1,025	1,204	1,097	1,199	1,184	988	886	927	1,403	1,133	1,273
1968	1,254	1,191	1,216	1,281	1,250	1,014	998	916	1,458	1,075	1,008	985
1969	917	1,038	1,342	1,364	1,193	1,035	917	738	1,170	1,192	722	779
1970	604	617	708	737	719	643	457	505	787	520	475	505
1971	507	520	744	716	587	599	472	643	788	579	522	669
1972	590	688	879	828	857	879	694	853	870	799	894	943
1973	953	1,043	1,250	1,168	1,242	1,145	1,044	1,322	1,076	1,166	997	1,240
1974	1,139	1,141	1,213	1,432	1,131	1,013	1,041	1,226	1,221	1,243	1,232	1,134
1975	1,146	1,246	1,385	1,239	1,164	1,159	1,032	1,043	1,216	1,148	1,144	1,134
1976	1,215	1,288	1,446	1,439	1,424	1,296	924	1,227	1,328	1,306	1,269	1,287
1977	1,289	1,298	1,536	1,496	1,527	1,490	1,152	1,342	1,494	1,177	1,528	1,578
1978	1,145	1,419	1,612	1,489	1,676	1,456	1,250	1,845	1,577	1,432	1,476	1,434
1979	1,194	1,354	1,711	1,623	1,542	1,437	1,250	1,753	1,423	1,153	1,363	1,245
1980	1,286	1,168	1,058	993	877	886	802	966	1,028	1,092	892	829
1981	659	751	980	960	802	870	743	847	939	555	644	709
1982	384	458	548	395	378	353	319	270	301	249	254	357

Source: GAMA

U.S. General Aviation Aircraft Exports

Year	Units Exported	% of Total Production	Factory Net Billings (Millions)	% of Total Dollars
1965	2,325	19.6%	$ 61.2	19.2%
1966	2,903	18.4%	75.4	16.9%
1967	3,035	22.4%	76.5	21.3%
1968	2,803	20.5%	91.5	21.5%
1969	2,623	20.8%	107.1	16.8%
1970	2,170	29.3%	98.9	27.2%
1971	1,854	24.8%	95.6	30.5%
1972	2,254	23.1%	137.9	24.7%
1973	3,530	25.9%	230.2	27.8%
1974	4,248	30.0%	287.5	31.6%
1975	3,512	25.0%	308.1	29.8%
1976	3,539	22.9%	331.2	27.0%
1977	3,611	21.4%	354.5	23.8%
1978	3,612	20.3%	486.7	27.4%
1979	3,995	25.5%	600.9	27.9%
1980	3,555	30.0%	756.4	29.9%
1981	2,270	24.0%	749.0	25.6%
1982	1,162	27.2%	650.2	32.5%

Source: GAMA

U.S. GENERAL AVIATION FLEET AND FLIGHT ACTIVITY

Estimated Active General Aviation Aircraft by Type of Aircraft
(in Thousands)

As January 1	Total	Fixed Wing				Rotorcraft		Balloons Dirigibles Gliders
		Piston						
		Single-Engine	Multi-Engine	Turboprop	Turbojet	Piston	Turbine	
Historical*								
1978	184.3	149.3	21.5	2.9	2.3	2.7	2.1	3.6
1979	198.8	160.7	23.2	3.1	2.5	2.8	2.5	4.0
1980	210.3	168.4	25.1	3.5	2.7	3.1	2.7	4.8
1981	211.0	168.4	24.6	4.1	3.0	2.8	3.2	4.9
1982	213.2	167.9	25.5	4.7	3.2	3.3	3.7	5.0
Forecast								
1983	215.0	168.1	26.1	5.0	3.3	3.4	3.9	5.2
1984	217.1	168.5	26.9	5.4	3.4	3.5	4.1	5.3
1985	221.9	171.1	28.0	5.9	3.5	3.6	4.3	5.5
1986	229.1	175.6	29.2	6.4	3.8	3.7	4.7	5.7
1987	237.3	181.3	30.4	6.9	4.0	3.8	5.0	5.9
1988	246.5	187.5	31.8	7.5	4.2	3.9	5.3	6.3
1989	257.1	194.9	33.2	8.0	4.5	4.1	5.6	6.8
1990	268.7	203.4	34.7	8.5	4.8	4.3	5.8	7.2
1991	280.2	211.4	36.3	9.0	5.1	4.6	6.1	7.7
1992	291.7	219.9	37.5	9.4	5.4	4.8	6.5	8.2
1993	303.5	228.4	38.8	9.9	5.8	5.0	6.9	8.7
1994	315.2	236.8	40.1	10.4	6.2	5.2	7.3	9.2

*Source: FAA

Detail may not add to total because of independent rounding.
An active aircraft must have a current registration and it must have been flown at least 1 hour during the previous calendar year.
Long range forecasts are projections of the Federal Aviation Administration.

U.S. Active General Aviation Aircraft by Region and State (as of December 31, 1981)

ALASKAN	6,450	PACIFIC	623
Alaska	6,450	Hawaii	623
CENTRAL	14,489	ROCKY MOUNTAIN	13,445
Iowa	3,747	Colorado	5,498
Kansas	3,932	Montana	2,463
Missouri	4,465	North Dakota	1,709
Nebraska	2,343	South Dakota	1,125
		Utah	1,508
EASTERN	21,988	Wyoming	1,142
Delaware	549		
District of Columbia	54	SOUTHERN	33,331
Maryland	2,645	Alabama	2,980
New Jersey	3,659	Florida	12,863
New York	5,687	Georgia	4,477
Pennsylvania	5,666	Kentucky	1,687
Virginia	2,784	Mississippi	2,132
West Virginia	942	North Carolina	4,300
		South Carolina	1,870
GREAT LAKES	41,498	Tennessee	2,730
Illinois	8,692	Puerto Rico	124
Indiana	4,285		
Michigan	7,430	SOUTHWEST	33,440
Minnesota	5,417	Arkansas	2,486
Ohio	8,406	Louisiana	3,908
Wisconsin	4,432	New Mexico	2,247
		Oklahoma	5,185
NEW ENGLAND	7,224	Texas	19,481
Connecticut	1,586		
Maine	1,156	WESTERN	37,369
Massachusetts	2,409	Arizona	4,976
New Hampshire	1,202	California	30,873
Rhode Island	320	Nevada	1,520
Vermont	447		
NORTHWEST	24,708	Other U.S. Territories	54
Idaho	2,349		
Oregon	5,640		
Washington	6,048		

Columns may not add due to independent rounding and estimation of receivers.

Source: FAA

FLIGHT HOURS BY TYPE . . .

Estimated Hours Flown in General Aviation by Type of Aircraft
(in Thousands of Hours)

As of December 31	Total	Fixed Wing			Rotorcraft		Balloons Dirigibles Gliders
		Piston	Turboprop	Turbojet	Piston	Turbine	
1976	33,922	29,713	1,326	911	753	950	270
1977	35,791	30,965	1,549	1,165	609	1,259	245
1978	39,409	34,043	1,606	1,194	806	1,421	338
1979	43,340	37,303	1,871	1,259	892	1,664	353
1980	41,016	34,747	2,240	1,332	736	1,603	359
1981	40,704	34,086	2,155	1,387	930	1,754	391

Note: Columns may not add due to rounding and estimation procedures.

Source: FAA

. . . AND PER AIRCRAFT

Active U.S. General Aviation Aircraft and Average Hours Annually Flown Per Aircraft, by Type

	Estimated Active Aircraft					Average Hours/Aircraft				
	1981	1980	1979	1978	1977	1981	1980	1979	1978	1977
TOTAL AIRCRAFT ...	**213,226**	**211,045**	**210,339**	**198,778**	**184,294**	**188**	**191**	**206**	**198**	**194**
Piston Total	**193,370**	**193,014**	**193,470**	**183,823**	**170,782**	**175**	**178**	**193**	**185**	**181**
Single engine	**167,898**	**168,435**	**168,390**	**160,651**	**149,300**	**166**	**168**	**180**	**173**	**167**
1-3 seats	59,914	60,505	62,362	59,185	57,340	171	166	180	171	157
4 + seats	107,983	107,930	106,028	101,466	91,960	163	170	181	175	173
Multi-engine	**25,356**	**24,366**	**24,850**	**22,950**	**21,482**	**251**	**255**	**277**	**265**	**282**
1-6 seats	16,749	16,224	16,891	15,621	15,074	215	228	238	233	241
7 + seats	8,607	8,141	7,958	7,328	6,226	326	311	359	332	373
Other Piston	114	212	229	221	182	197	625	663	466	528
Turboprop Total	**4,660**	**4,090**	**3,579**	**3,130**	**2,889**	**470**	**533**	**523**	**513**	**537**
Twin Engine										
1-12 seats	3,968	3,339	2,944	2,507	2,276	398	445	426	383	392
13 + seats	557	627	538	566	549	989	1,038	1,064	1,099	1,138
Other Turboprop ...	134	123	96	56	64	499	487	466	429	500
Turbojet Total	**3,171**	**2,992**	**2,653**	**2,480**	**2,227**	**436**	**444**	**475**	**482**	**572**
Twin Engine	2,808	2,551	2,309	2,115	1,959	443	456	487	481	532
Other	362	441	343	364	318	377	350	392	481	384
Rotorcraft Total	**6,974**	**6,001**	**5,864**	**5,315**	**4,725**	**391**	**382**	**436**	**419**	**395**
Piston	3,250	2,794	3,123	2,822	2,658	285	263	286	286	229
Turbine	3,724	3,207	2,740	2,492	2,067	490	498	608	570	609
Other	**5,049**	**4,945**	**4,770**	**4,028**	**3,616**	**78**	**75**	**74**	**84**	**88**

Source: FAA

PILOTS

Active U.S. Pilot Certificates Held
(as of December 31, year indicated)

Category	1970	1971	1972	1973[3]	1974	1975	1976	1977	1978	1979	1980	1981
Pilot—total	**732,729**	**741,009**	**750,869**	**714,607**	**733,728**	**728,187**	**744,246**	**[R]783,932**	**798,833**	**814,667**	**827,071**	**764,182**
Student	195,861	186,428	181,477	181,905	180,795	176,978	188,801	[R]203,510	204,874	210,180	199,833	179,912
Private	303,779	312,656	321,413	298,921	305,848	305,863	309,005	327,424	337,644	343,276	357,479	328,562
Commercial	186,821	192,409	196,228	182,444	192,425	189,342	187,801	188,763	185,833	182,097	183,442	168,580
Airline transport	34,430	35,949	37,714	38,139	41,002	42,592	45,072	50,149	55,881	63,652	69,569	70,311
Helicopter (only)	6,677	7,992	7,987	5,968	5,647	4,932	4,804	4,819	4,874	5,218	6,030	6,453
Glider (only)[1]	3,114	3,571	4,080	4,288	4,824	5,348	5,789	6,208	6,541	6,796	7,039	7,388
Lighter-than-air[1]	2,047	2,004	1,970	2,942	3,187	3,132	2,974	3,059	3,186	3,448	3,679	2,976
Nonpilot—total	**289,681**	**307,057**	**[R]315,348**	**304,747**	**314,394**	**323,934**	**334,681**	**348,584**	**362,350**	**377,213**	**393,486**	**398,368**
Mechanic[1]	184,647	193,295	201,700	193,337	198,863	205,436	212,303	220,768	228,743	237,611	250,157	262,705
Parachute rigger[1]	6,424	6,839	7,287	6,941	7,900	8,327	8,718	8,994	9,200	9,831	9,547	9,716
Ground instructor[1]	44,176	46,145	48,450	46,827	49,249	51,365	53,464	55,717	57,738	59,680	61,550	63,246
Dispatcher[1]	5,293	5,480	5,637	5,527	5,576	5,741	5,838	5,972	6,161	6,446	6,799	7,094
Control tower operator	21,032	26,450	[R]23,353	23,250	23,342	23,956	24,584	25,107	25,388	25,232	25,130	15,528[4]
Flight navigator	2,950	3,052	2,957	2,636	2,509	2,321	2,214	2,155	2,092	1,994	1,936	1,785
Flight engineer	25,159	25,796	25,964	26,229	26,955	26,788	27,560	29,871	33,028	36,869	38,367	38,294
Flight instructor certificates	37,882	37,760	37,858	36,795	42,418	44,777	46,236	49,362	52,201	54,398	60,440	57,523
Instrument Ratings[2]	169,848	179,261	187,909	185,969	199,323	203,954	211,364	226,334	236,312	247,096	260,461	252,535

Source: FAA

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25 month criteria.
[1]Numbers represent all certificates on record. No medical examination required.
[2]Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.
[3]The decrease in the number of airmen resulted from a purging of the airmen certification files. During this process, approximately 26,000 duplicates or faulty records were eliminated.
[4]Does not include approximately 15,000 air traffic controllers whose medical certificates are no longer processed by the Civil Aeromedical Institute (CAMI). They are being processed by a separate system, and will be included in future counts.
[R]Revised.

Active U.S. Pilots and Flight Instructors by FAA Region and State (as of December 31, 1981)

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscel-laneous[2]	Flight Instructor[3]
Total	**764,182[1]**	**179,912**	**328,562**	**168,560**	**70,311**	**16,817**	**57,523**
United States—total	**747,357**	**175,860**	**325,328**	**164,121**	**67,274**	**14,774**	**56,714**
New England—total	**32,576**	**8,235**	**13,140**	**6,631**	**3,860**	**710**	**2,421**
Maine	3,623	919	1,602	843	217	42	235
New Hampshire	4,064	850	1,416	932	792	74	296
Rhode Island	1,608	420	708	331	119	30	116
Massachusetts	12,333	3,484	5,329	2,258	941	321	896
Connecticut	9,337	2,144	3,378	1,931	1,668	196	747
Vermont	1,611	418	707	336	103	47	131
Eastern—total	**94,958**	**23,670**	**39,456**	**21,139**	**8,272**	**2,421**	**7,695**
New York	28,007	7,473	11,850	5,815	1,934	935	2,225
Pennsylvania	21,296	5,499	9,252	4,250	1,820	475	1,839
Virginia	14,903	3,174	5,345	4,543	1,514	327	1,147
Maryland	9,433	2,165	4,249	2,122	696	201	705
West Virginia	2,931	846	1,275	565	195	50	224
Delaware	1,684	331	744	389	187	33	163
New Jersey	15,952	3,977	6,423	3,288	1,896	368	1,316
District of Columbia	752	205	318	167	30	32	46
Great Lakes—total	**133,229**	**31,748**	**65,314**	**25,600**	**8,733**	**1,834**	**10,072**
Illinois	31,968	7,807	14,768	6,129	2,834	410	2,520
Indiana	13,639	3,297	6,841	2,640	670	191	1,075
Minnesota	17,841	3,890	8,794	3,504	1,488	165	1,179
Michigan	22,364	5,200	11,461	4,062	1,228	413	1,655
North Dakota	3,879	969	1,846	945	92	27	268
Ohio	26,300	6,328	12,757	5,169	1,561	485	2,191
South Dakota	3,436	838	1,725	755	94	26	232
Wisconsin	13,800	3,419	7,102	2,396	766	117	952
Central—total	**46,125**	**9,893**	**23,656**	**9,250**	**2,754**	**572**	**3,171**
Kansas	13,294	2,669	6,873	2,746	825	181	894
Iowa	10,997	2,475	6,156	1,904	338	124	658
Missouri	14,360	3,128	6,651	3,041	1,320	220	1,164
Nebraska	7,474	1,621	3,976	1,559	271	47	455
Southern—total	**116,179**	**27,291**	**45,481**	**28,409**	**12,591**	**2,407**	**8,888**
North Carolina	13,178	3,379	5,606	2,946	993	254	925
South Carolina	6,390	1,543	2,593	1,683	476	95	488
Georgia	16,790	3,676	5,824	4,034	2,910	346	1,237
Florida	46,826	10,456	17,978	11,862	5,837	695	3,623
Mississippi	5,795	1,496	2,229	1,685	309	76	396
Alabama	9,758	2,254	3,859	2,689	488	468	911
Tennessee	11,613	2,913	4,783	2,362	1,280	275	885
Kentucky	5,827	1,574	2,609	1,148	298	198	423
Southwest—total	**99,338**	**23,600**	**39,469**	**24,128**	**10,268**	**1,873**	**8,038**
Louisiana	11,156	2,811	4,072	3,120	818	335	878
Oklahoma	14,901	3,573	6,967	3,290	908	163	1,135
Texas	60,184	14,015	22,884	14,420	7,753	1,112	5,028
New Mexico	6,394	1,556	2,740	1,523	380	195	496
Arkansas	6,703	1,645	2,806	1,775	409	68	499
Western-Pacific—total	**137,386**	**30,626**	**60,144**	**30,112**	**13,343**	**3,161**	**9,913**
Hawaii	3,532	769	960	1,029	605	169	276
California	111,849	24,893	49,918	24,006	10,575	2,457	7,998
Arizona	15,857	3,606	6,885	3,726	1,214	426	1,145
Nevada	6,148	1,358	2,381	1,351	949	109	494
Northwest Mountain—total	**77,146**	**18,543**	**34,061**	**16,274**	**6,592**	**1,676**	**5,789**
Washington	23,737	5,162	9,969	5,592	2,564	450	1,868
Idaho	5,536	1,248	2,715	1,213	287	73	419
Colorado	19,864	5,429	7,305	3,934	2,424	772	1,542
Wyoming	3,182	911	1,481	595	166	29	225
Utah	5,967	1,548	2,716	1,209	378	116	405
Montana	5,213	1,137	2,727	1,082	218	49	365
Alaskan Region—total	**10,420**	**2,254**	**4,607**	**2,578**	**861**	**120**	**729**
Outside U.S.—total	**16,825**	**4,052**	**3,234**	**4,459**	**3,037**	**2,043**	**809**

Estimated: Data is based on a 25-month criteria.

Source: FAA

NOTE: Puerto Rico and Virgin Islands are included in Outside U.S. total.

[1]Includes Outside U.S.
[2]Includes helicopter, glider, and lighter-than-air.
[3]Not included in total.

U.S. Student Pilot Certificates Issued by Month and Year

Month	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	**128,004**	**121,543**	**131,384**	**113,997**	**127,424**	**129,280**	**138,816**	**137,032**	**135,956**	**102,301**	**118,206**	**86,525**
January	8,131	7,515	7,608	8,200	9,794	11,853	10,247	7,385	12,926	10,462	9,179	7,248
February	7,458	7,936	8,622	6,195	7,506	6,396	8,010	8,253	10,585	7,835	8,568	6,557
March	10,314	10,176	9,963	7,661	9,445	10,921	11,921	11,234	9,525	7,872	9,718	6,874
April	9,406	10,445	10,513	7,690	8,654	10,835	9,871	10,646	9,968	7,775	7,036	5,393
May	10,490	10,495	10,712	10,013	10,204	10,749	10,286	11,032	9,919	8,510	8,387	5,044
June	11,451	11,174	12,242	10,970	9,865	10,322	11,573	11,490	9,308	8,577	8,885	6,694
July	13,146	10,366	13,473	10,261	12,339	12,300	11,372	10,544	13,266	6,941	8,387	6,416
August	13,785	15,007	14,643	12,431	12,471	12,930	15,262	13,839	16,920	10,590	8,363	8,577
September ..	12,314	10,850	11,568	10,320	13,587	12,320	13,987	11,904	12,051	9,936	10,713	8,850
October	12,338	10,962	11,715	10,863	11,979	8,864	11,678	15,548	11,926	9,186	14,327	8,254
November ...	10,853	10,298	12,385	9,770	11,681	12,292	15,114	13,096	12,928	7,052	12,668	8,407
December ...	8,318	6,319	7,940	9,353	9,899	9,498	9,495	12,061	6,634	7,565	11,975	8,211

Source: FAA

Estimated Total and Instrument Rated Pilots: December 31, 1976-81

Calendar Year	Total Pilots[1]	Instrument Rated Pilots	
		Number	Percent of Total
1981	584,270	252,535	43
1980	627,238	260,461	42
1979	604,487	247,096	41
1978	593,959	236,312	40
1977	580,422	226,334	39
1976	555,625	211,364	38

Source: FAA

Estimated: Data is based on a 27-month criteria. Past years are based on a 25-month criteria.[1] Excludes student pilots.

Estimated Instrument Ratings Held, By Class of Certificates: December 31, 1981 and 1980

Class of Certificates	1981	1980	Percent Change 1981-1980
Total—all groups	**252,535**	**260,461**	**– 3**
Private pilots—total	**39,862**	**39,347**	**+ 1**
Private airplane, private glider	853	849	—
Private airplane, commercial glider	75	68	+ 10
Private airplane, private helicopter	229	242	– 5
Private airplane, private glider, private helicopter	15	17	– 12
Private airplane, commercial helicopter	1,576	1,617	– 3
Private airplane, private gyroplane	3	2	+ 50
Private airplane, private glider, commercial helicopter	12	14	+ 14
Private airplane, commercial glider, commercial helicopter	7	8	– 13
Private airplane, other	1	1	—
Commercial pilots—total	**138,023**	**147,741**	**– 7**
Commercial airplane (only)	117,334	125,854	– 7
Commercial airplane, private glider	1,817	1,883	– 4
Commercial airplane, commercial glider	3,259	3,337	– 3
Commercial airplane, private helicopter	160	140	+ 14
Commercial airplane, commercial helicopter	14,729	15,734	– 6
Commercial airplane, private glider, commercial helicopter	136	138	– 1
Commercial airplane, commercial glider, commercial helicopter	525	549	– 4
Commercial airplane, commercial gyroplane	20	18	+ 11
Commercial airplane, commercial helicopter, commercial gyroplane	18	22	– 19
Commercial airplane, commercial gyroplane, commercial glider	2	1	+100
Commercial airplane, commercial glider, private helicopter	11	11	—
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider	12	14	– 14
Airline transport pilots—total	**70,311**	**69,569**	**+ 1**
Airline transport airplane	69,377	68,760	+ 1
Airline transport airplane, airline transport helicopter	934	809	+ 15
Rotorcraft pilots—total	**4,339**	**3,804**	**+ 14**
Commercial helicopter	36	28	+ 29
Rotorcraft other	17	17	—

Estimated: 1981 is based on a 25-month criteria. 1980 is based on a 27-month criteria.

Source: FAA

Women Actively Engaged in U.S. Aviation
(as of December 31, year indicated)

Category of Certificates Held	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Pilot—total	**29,472**	**31,216**	**33,001**	**34,356**	**36,943**	**37,934**	**41,643**	**47,294**	**49,874**	**51,733**	**52,902**	**47,721**
Student	15,787	16,417	17,053	18,593	19,298	19,600	22,254	25,705	26,354	26,714	26,006	22,591
Private	11,409	12,332	13,391	13,232	14,465	14,952	15,838	17,702	19,267	20,275	21,554	19,602
Commercial	1,837	2,032	2,196	2,083	2,596	2,733	2,857	3,090	3,306	3,618	3,993	4,101
Airline transport	79	88	101	95	116	137	160	193	270	361	480	584
Helicopter (only)	6	9	10	7	5	11	17	18	17	27	55	
Glider (only)[1*]	141	169	201	216	271	301	352	391	433	461	496	843
Lighter-than-air[1*]	153	169	49	130	192	200	135	195	227	277	318	
Nonpilot—total	**3,078**	**3,413**	**3,594**	**3,074**	**3,471**	**3,809**	**4,252**	**4,716**	**5,135**	**5,600**	**6,111**	**6,348**
Mechanic[1]	302	322	349	284	315	360	422	505	600	695	890	1,051
Parachute rigger[1]	461	470	483	336	495	504	516	535	544	553	562	580
Ground instructor[1]	2,006	2,081	2,166	1,960	2,139	2,249	2,369	2,525	2,682	2,852	3,015	3,213
Dispatcher[1]	38	39	40	39	42	50	55	65	76	105	141	167
Control tower operator	271	501	556	453	473	638	874	1,044	1,151	1,250	1,332	1,147
Flight engineer	0	0	0	2	7	8	16	42	82	145	171	189
Flight instructor	589	646	664	618	834	945	1,054	1,238	1,458	1,699	2,079	2,165

Source: FAA

NOTE: Instrument ratings and Flight navigator not reported.

* Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination.

[1] No medical examination required.

AIRPORTS AND AERONAUTICAL FACILITIES

U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases on Record by Type of Ownership December 31, 1981

FAA Region and State	Total Facilities	By Ownership		Paved Airports		Unpaved Airports	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Total	**15,476**	**4,798**	**10,678**	**3,836**	**2,176**	**960**	**8,514**
United States—total*	**15,422**	**4,768**	**10,654**	**3,818**	**2,153**	**960**	**8,502**
Alaskan—total	689	477	212	42	15	62	570
Central—total	**1,373**	**458**	**915**	**390**	**63**	**141**	**759**
Iowa	270	117	153	98	15	57	100
Kansas	376	129	247	102	13	38	223
Missouri	393	118	275	116	39	27	211
Nebraska	334	94	240	74	16	19	225
Eastern—total	**2,003**	**315**	**1,688**	**414**	**343**	**129**	**1,127**
Delaware	37	3	34	6	6	9	16
District of Columbia	16	7	9	5	8	—	3
Maryland	145	24	121	38	24	10	73
New Jersey	271	35	236	47	57	15	152
New York	486	83	403	102	89	38	267
Pennsylvania	698	77	621	113	107	43	435
Virginia	260	58	202	73	32	11	144
West Virginia	90	28	62	30	20	3	37
Great Lakes—total	**3,813**	**860**	**2,953**	**754**	**258**	**334**	**2,467**
Illinois	929	98	843	110	65	64	690
Indiana	365	78	287	89	26	37	216
Michigan	417	133	284	122	32	44	219
Minnesota	493	145	348	98	9	43	343
North Dakota	365	97	268	58	7	29	271
Ohio	674	133	541	141	89	56	388
South Dakota	162	74	88	42	5	29	86
Wisconsin	408	102	306	97	25	32	254
New England—total	**534**	**138**	**396**	**129**	**108**	**9**	**288**
Connecticut	105	15	90	27	31	1	46
Maine	158	45	113	28	13	3	114
Massachusetts	136	35	101	41	42	3	50
New Hampshire	52	15	37	17	12	2	21
Rhode Island	18	8	10	7	3	—	8
Vermont	65	20	45	9	7	—	49

(Continued from page 20)

FAA Region and State	Total Facilities	By Ownership		Paved Airports		Unpaved Airports	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Northwest Mountain—total	**1,586**	**649**	**937**	**410**	**257**	**92**	**827**
Colorado	312	90	222	74	60	19	159
Idaho	196	126	70	40	18	3	135
Montana	190	118	72	66	14	16	94
Oregon	318	96	222	66	56	18	178
Utah	102	57	45	42	20	—	40
Washington	363	118	245	93	72	33	165
Wyoming	105	44	61	29	17	3	56
Southern—total	**1,895**	**748**	**1,147**	**676**	**281**	**95**	**843**
Alabama	165	97	68	92	30	4	39
Florida	506	132	374	124	79	27	276
Georgia	293	125	168	111	38	11	133
Kentucky	125	62	63	51	28	7	39
Mississippi	180	82	98	69	24	9	78
North Carolina	286	90	196	88	28	19	151
Puerto Rico	33	13	20	11	17	—	5
South Carolina	137	66	71	53	12	12	60
Tennessee	164	77	87	75	25	6	58
Virgin Islands	6	4	2	2	—	—	4
Southwest—total	**2,333**	**669**	**1,664**	**656**	**443**	**73**	**1,161**
Arkansas	157	81	76	69	20	7	61
Louisiana	292	74	218	72	65	5	150
New Mexico	156	66	90	46	24	2	84
Oklahoma	297	126	171	116	37	12	132
Texas	1,431	322	1,109	297	297	47	734
Western—total	**1,250**	**484**	**766**	**365**	**388**	**25**	**472**
Arizona	224	96	128	65	43	7	109
California	832	295	537	261	286	14	271
Hawaii	51	18	33	11	25	1	14
Nevada	128	62	66	23	28	3	74
South Pacific**	15	13	2	5	6	—	4

*Excludes Puerto Rico, Virgin Islands, N. Mariana Islands, and South Pacific.
**American Samoa, Guam, and Trust Territories.

Source: FAA

FAA Air Route Facilities and Services: 1972 through 1981

December 31	VOR VORTAC	Nondirectional Beacons	Air Route Traffic Control Centers	Airport Traffic Control Towers	Combined Station/ Towers	Flight Service Stations	International Flight Service Stations	Instrument Landing Systems	Airport Surveillance Radar
1972	991	706	27	355	42	324	7	403	125
1973	995	739	27	403	29	315	7	467	142
1974	1,000	793	27	417	21	320	7	490	156
1975	1,011	848	26	487	21	321	7	580	177
1976	1,020	920	25	488	16	321	7	640	175
1977	1,021	959	25	495	7	319	7	678	182
1978	1,020	988	25	494	7	319	6	698	185
1979	1,028	1,015	25	499	5	318	6	753	192
1980[R]	1,037	1,055	25	502	4	317	6	796	192
1981	1,033[A]	1,123[B]	25[C]	501[D]	1	316	6	840[E]	199[F]

[A]Includes 66 nonfederal and 40 military.
[B]Includes 768 nonfederal and 53 military.
[C]Includes 3 military combined center/radar approach control facilities (CERAP).
[D]Includes 35 nonfederal and 33 military.
[E]Includes 12 Landing Directional Aid (LDA), 79 nonfederal, and 5 military.
[F]Includes 22 military.
[R]Revised.

Source: FAA

FORECASTS AND OTHER INFORMATION

Forecast Active General Aviation Aircraft by Type of Aircraft
(in Thousands)

As of January 1	Total	Fixed Wing				Rotorcraft		Ballons Dirigibles Gliders
		Piston		Turboprop	Turbojet	Piston	Turbine	
		Single-Engine	Multi-Engine					
Forecast								
1983	215.0	168.1	26.1	5.0	3.3	3.4	3.9	5.2
1984	217.1	168.5	26.9	5.4	3.4	3.5	4.1	5.3
1985	221.9	171.1	28.0	5.9	3.5	3.6	4.3	5.5
1986	229.1	175.6	29.2	6.4	3.8	3.7	4.7	5.7
1987	237.3	181.3	30.4	6.9	4.0	3.8	5.0	5.9
1988	246.5	187.5	31.8	7.5	4.2	3.9	5.3	6.3
1989	257.1	194.9	33.2	8.0	4.5	4.1	5.6	6.8
1990	268.7	203.4	34.7	8.5	4.8	4.3	5.8	7.2
1991	280.2	211.4	36.3	9.0	5.1	4.6	6.1	7.7
1992	291.7	219.9	37.5	9.4	5.4	4.8	6.5	8.2
1993	303.5	228.4	38.8	9.9	5.8	5.0	6.9	8.7
1994	315.2	236.8	40.1	10.4	6.2	5.2	7.3	9.2

Source: FAA

Detail may not add to total because of independent rounding.
An active aircraft must have a current registration and it must have been flown at least 1 hour during the previous calendar year.
Long range forecasts are projections of the Federal Aviation Administration.

Active Pilots by Type of Certificate
(thousands)

As of January 1	Total	Students	Private	Commercial	Airline Transport	Helicopter	Glider	Other	Instrument Rated [1]
Historical*									
1978	783.9	203.5	327.4	188.8	50.1	4.8	6.2	3.1	226.3
1979	798.8	204.9	337.6	185.8	55.9	4.9	6.5	3.2	236.3
1980	814.7	210.2	343.3	182.1	63.7	5.2	6.8	3.4	247.1
1981	827.0	199.8	357.5	183.4	69.6	6.0	7.0	3.7	260.5
1982	764.2	179.9	328.6	168.6	70.3	6.5	7.4	3.0	252.2
Forecast									
1983	776.4	182.0	332.4	169.6	74.3	7.0	7.9	3.2	261.1
1984	792.5	187.2	337.4	170.0	78.9	7.4	8.3	3.3	269.9
1985	810.4	193.2	344.4	170.1	82.9	7.7	8.7	3.4	280.8
1986	832.7	202.9	351.9	170.2	86.9	8.1	9.2	3.5	292.0
1987	856.9	211.5	361.9	170.3	91.5	8.4	9.6	3.7	303.7
1988	877.3	216.7	371.5	171.0	95.5	8.7	10.0	3.9	315.8
1989	900.7	224.3	382.3	172.1	98.5	9.0	10.4	4.1	325.3
1990	924.5	230.9	393.3	174.2	101.7	9.3	10.8	4.3	335.0
1991	949.6	237.5	404.4	177.5	104.9	9.6	11.2	4.5	345.1
1992	976.5	244.6	415.8	181.7	108.1	9.9	11.7	4.7	355.4
1993	1,003.9	252.2	426.8	186.7	111.1	10.2	12.0	4.9	369.7
1994	1,031.6	260.0	437.6	192.0	114.1	10.5	12.3	5.1	380.7

*Source: FAA

Detail may not add to total because of rounding.
[1]Should not be added to other categories in deriving total.
Long range forecasts are projections of the Federal Aviation Administration.

FLIGHT HOURS FORECAST—

Estimated Hours Flown in General Aviation by Type of Aircraft
(millions)

Fiscal Year	Total	Fixed Wing				Rotorcraft		Balloons Dirigibles Gliders
		Piston		Turboprop	Turbojet	Piston	Turbine	
		Single Engine	Multi-Engine					
Historical*								
1978	38.5	27.0	6.2	1.6	1.2	.8	1.4	.3
1979	42.3	29.7	6.8	1.8	1.2	.9	1.6	.3
1980	41.6	28.8	6.6	2.1	1.3	.8	1.6	.4
1981	41.0	27.9	6.4	2.2	1.4	.9	1.8	.4
1982[E]	42.6	28.5	6.8	2.4	1.5	1.0	2.0	.4
Forecast								
1983	43.5	28.8	7.1	2.6	1.5	1.0	2.1	.4
1984	44.4	29.1	7.3	2.8	1.6	1.0	2.2	.4
1985	45.8	29.8	7.5	3.0	1.7	1.0	2.4	.4
1986	47.8	30.8	7.8	3.2	1.8	1.1	2.6	.5
1987	49.6	31.8	8.2	3.4	1.9	1.1	2.7	.5
1988	51.8	33.1	8.5	3.7	2.0	1.1	2.9	.5
1989	54.4	34.7	8.9	3.9	2.1	1.2	3.0	.6
1990	56.6	36.0	9.3	4.1	2.2	1.3	3.1	.6
1991	58.9	37.4	9.6	4.3	2.4	1.3	3.3	.6
1992	61.3	38.9	9.9	4.5	2.5	1.4	3.5	.6
1993	63.9	40.4	10.3	4.7	2.7	1.4	3.7	.7
1994	66.3	41.9	10.6	4.9	2.8	1.5	3.9	.7

E—Estimate
*Source: FAA Statistical Handbook of Aviation
Detail may not add to total because of independent rounding.

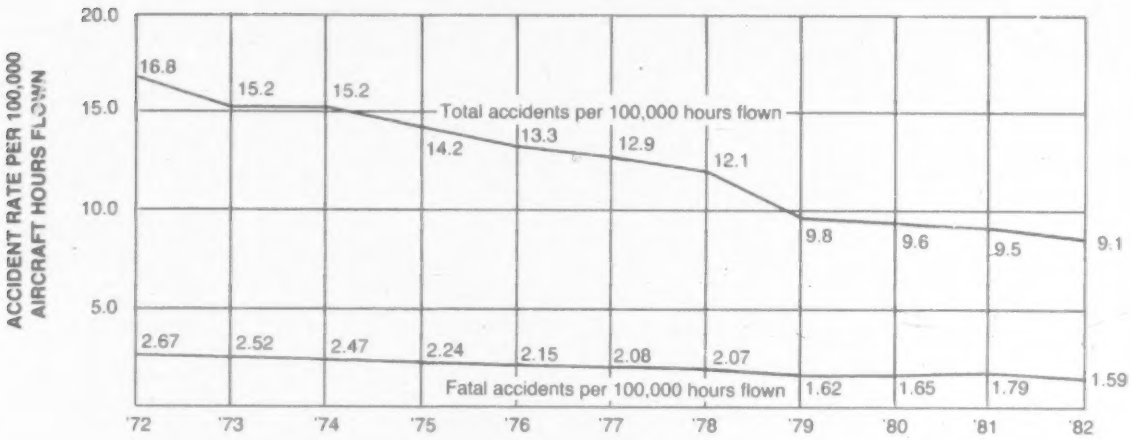
FUEL USE FORECAST—

Estimated Fuel Consumed by General Aviation by Type of Aircraft
(millions of gallons)

Fiscal Year	Total	Fixed Wing				Rotorcraft		Other
		Piston		Turboprop	Turbojet	Piston	Turbine	
		Single Engine	Multi-Engine					
Historical*								
1978	1,232.4	251.0	211.4	188.3	517.8	12.3	50.6	1.0
1979	1,322.8	282.2	238.0	207.0	522.0	14.2	58.4	1.0
1980	1,383.8	273.6	231.0	241.5	565.5	12.6	58.4	1.2
1981	1,433.3	265.1	224.0	253.0	609.0	14.4	66.6	1.2
1982[E]	1,528.5	270.8	238.0	276.0	652.5	16.0	74.0	1.2
Forecast								
1983	1,568.5	273.6	248.5	299.0	652.5	16.0	77.7	1.2
1984	1,648.6	276.5	255.5	322.0	696.0	16.0	81.4	1.2
1985	1,736.1	283.1	262.5	345.0	739.5	16.0	88.8	1.2
1986	1,831.9	292.6	273.0	368.0	783.0	17.6	96.2	1.5
1987	1,925.6	302.1	287.0	391.0	826.5	17.6	99.9	1.5
1988	2,033.9	314.5	297.5	425.5	870.0	17.6	107.3	1.5
1989	2,135.2	329.7	311.5	448.5	913.5	19.2	111.0	1.8
1990	2,233.3	342.0	325.5	471.5	957.0	20.8	114.7	1.8
1991	2,374.5	355.3	336.0	494.5	1,044.0	20.8	122.1	1.8
1992	2,474.8	369.6	346.5	517.5	1,087.5	22.4	129.5	1.8
1993	2,620.7	383.8	360.5	540.5	1,174.5	22.4	136.9	2.1
1994	2,721.0	398.1	371.0	563.5	1,218.0	24.0	144.3	2.1

E—Estimate.
*Source: FAA APO Estimates.

ACCIDENT RATES U.S. GENERAL AVIATION (1972-1982)



Source - NTSB 1982 - Estimated

AIRCRAFT FUEL CONSUMPTION

General Aviation Fuel Consumed by Type of Aircraft—CY 1981

Aircraft Type	Mean Rate GPH	Estimated Fuel Use (mil gal)	Standard Error (mil gal)
Fixed Wing			
Piston			
1 engine 1-3 seats	8.01	81.61	3.3
1 engine 4+ seats	11.00	192.56	4.8
Total 1 engine	9.90	274.17	5.9
2 engines 1-6 seats	26.01	93.81	3.8
2 engines 7+ seats	35.72	98.67	5.5
Total 2 engines	30.22	192.48	6.7
Other Piston	263.08	6.99	1.8
Total Piston	13.90	473.64	9.1
Turboprop			
2 engines 1-12 seats	75.51	117.01	5.4
2 engines 13+ seats	166.52	90.33	8.0
Total 2 engines	99.11	207.34	9.7
Other Turboprop	118.81	7.43	1.6
Total Turboprop	99.68	214.77	9.8
Turbojet			
2 engines	300.89	372.52	17.9
Other	763.70	114.03	12.9
Total Turbojet	350.70	486.55	22.0
Total Fixed Wing	31.23	1174.96	25.8
Rotorcraft			
Piston	15.17	14.12	1.7
Turbine	32.76	57.47	5.0
Total Rotorcraft	26.66	71.59	5.3
Other	2.09	0.82	0.1
Total Aircraft	30.65	1247.37	26.3
Total Jet Fuel	143.27	758.79	24.6
Total Aviation Gasoline	13.80	488.58	9.3

Source: FAA

General Aviation Manufacturers Association

The General Aviation Manufacturers Association (GAMA)—a national trade association headquartered in Washington, D.C. represents 34 U.S. manufacturers of general aviation aircraft, engines, avionics, and related items.

Aero Products Research, Inc.
11201 Hindry Avenue
Los Angeles, CA 90045
(213) 641-7242

Aeroquip Corporation
Aerospace Division
300 South East Avenue
Jackson, MI 49203
(517) 787-8121

Aire-Sciences, Incorporated
216 Passaic Avenue
Fairfield, NJ 07006
(201) 228-1880

AVCO Corporation
Lycoming Stratford Division
550 South Main Street
Stratford, CT 06497
(203) 385-2000

AVCO Corporation
Lycoming Williamsport Division
652 Oliver Street
Williamsport, PA 17701
(717) 323-6181

Aviation Simulation Technology
Hanscom Field-East
Bedford, MA 01730
(617) 274-6600

Beech Aircraft Corporation
9709 East Central
Wichita, KS 67201
(316) 681-7111

The Bendix Corporation
Aerospace-Electronics Group
1000 Wilson Blvd.
Arlington, VA 22209
(703) 276-2000

Cessna Aircraft Company
P.O. Box 1521
Wichita, KS 67201
(316) 685-9111

Champion Spark Plug Company
P.O. Box 910
Toledo, OH 43601
(419) 535-2461

Collins Avionics
Rockwell International
Cedar Rapids, IA 52498
(319) 395-1000

Dukes, Incorporated
9060 Winnetka Avenue
Northridge, CA 91342
(213) 998-9811

Elano Corporation
2455 Dayton-Xenia Road
Xenia, OH 45385
(513) 426-0621

Fairchild Aircraft Corporation
Box 32486
San Antonio, TX 78284
(512) 824-9421

FlightSafety International, Inc.
Marine Air Terminal
LaGuardia Airport
Flushing, NY 11371
(212) 565-4100

The Garrett Corporation
3851 Sepulveda Boulevard
P.O. Box 92248
Los Angeles, CA 90009
(213) 776-1010

B.F. Goodrich Company
Transportation Products Division
Engineered Products Group
500 South Main Street
Akron, OH 44318
(216) 374-2000

Goodyear Aerospace Corporation
1210 Massillon Road
Akron, OH 44315
(216) 796-2121

Gulfstream Aerospace Corporation
P.O. Box 2206
Savannah, GA 31402
(912) 964-3000

HTL Industries, Inc.
101 East Wheeler Avenue
Arcadia, CA 91006
(213) 574-7880

Jeppesen Sanderson; Incorporated
55 Inverness Drive East
Englewood, CO 80112
(303) 779-5757

King Radio Corporation
400 North Rogers Road
Olathe, KS 66062
(913) 782-0400

Marathon Battery Company
P.O. Box 8233
8301 Imperial Drive
Waco, TX 76710
(817) 776-0650

McCreary Tire & Rubber Company
1600 Washington Street
Indiana, PA 15701
(412) 357-6600

Mooney Aircraft Corporation
P.O. Box 72
Louis Schreiner Field
Kerrville, TX 78028
(512) 896-6000

Oberdorfer Foundries, Inc.
P.O. Box 1125
Syracuse, NY 13201
(315) 437-0361

Pacific Scientific Company
Aircraft Products Division
1346 S. State College Boulevard
Anaheim, CA 92803
(714) 774-5217

Parker Hannifin Corporation
Airborne Division
17325 Euclid Avenue
Cleveland, OH 44112
(216) 531-3000

Piper Aircraft Corporation
Lock Haven, PA 17745
(717) 748-6711

Rockwell International
Sabreliner Business Area
6161 Aviation Drive
St. Louis, MO 63134
(314) 731-2260

Sperry Flight Systems
P.O. Box 21111
Phoenix, AZ 85036
(602) 869-2311

Teledyne Continental Motors
Aircraft Products Division
P.O. Box 90
Mobile, AL 36601
(205) 438-3411

TRW Hartzell Propeller, Inc.
1800 Covington Avenue
P.O. Box 1458
Piqua, OH 45356
(513) 778-4200

United Technologies Corporation
Pratt & Whitney Canada
1000 Marie Victorian Blvd.
Box 10
Longueuil, PQ
Canada, J4K 4X9
(514) 677-9411

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